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APPLICATION NO.	F	ILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/678,500		10/02/2003	Michael J. Cullen	203-0155 (FGT 3C4)	1954
36865	7590	11/09/2004		EXAMINER	
KOLISCH		•	RIDDLE, KYLE M		
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520 SW YA			. ART UNIT	PAPER NUMBER	
PORTLAND, OR 97204				3748	
			DATE MAILED: 11/09/2004		

Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application No.	Applicant(s)
	10/678,500	CULLEN, MICHAEL J.
Office Action Summary	Examiner	Art Unit
	Kyle M. Riddle	37,48
The MAILING DATE of this communication ap Period for Reply	pears on the cover sheet with the c	correspondence address
A SHORTENED STATUTORY PERIOD FOR REPL THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1. after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a rep of 18 NO period for reply is specified above, the maximum statutory period Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	136(a). In no event, however, may a reply be tingly within the statutory minimum of thirty (30) day will apply and will expire SIX (6) MONTHS from e, cause the application to become ABANDONE	nely filed s will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).
Status		
Responsive to communication(s) filed on <u>02 S</u> This action is FINAL . 2b) ☐ This Since this application is in condition for alloware closed in accordance with the practice under the practice under the practice.	s action is non-final. ance except for formal matters, pro	
Disposition of Claims		
4) ⊠ Claim(s) 1-14 and 16-19 is/are pending in the 4a) Of the above claim(s) is/are withdra 5) ⊠ Claim(s) 1-14,16 and 17 is/are allowed. 6) ⊠ Claim(s) 18 and 19 is/are rejected. 7) □ Claim(s) is/are objected to. 8) □ Claim(s) are subject to restriction and/or	awn from consideration.	
Application Papers		
9) ☐ The specification is objected to by the Examine 10) ☑ The drawing(s) filed on 02 September 2004 is/ Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) ☐ The oath or declaration is objected to by the E	/are: a)⊠ accepted or b)□ object e drawing(s) be held in abeyance. Section is required if the drawing(s) is ob	e 37 CFR 1.85(a). jected to. See 37 CFR 1.121(d).
Priority under 35 U.S.C. § 119		
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority documen 2. Certified copies of the priority documen 3. Copies of the certified copies of the priority documen application from the International Burea * See the attached detailed Office action for a list	ts have been received. ts have been received in Applicationity documents have been received in Application (PCT Rule 17.2(a)).	ion No ed in this National Stage
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	4) Interview Summary Paper No(s)/Mail D	ate
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08 Paper No(s)/Mail Date <u>09022004</u> .	5) Notice of Informal F 6) Other:	Patent Application (PTO-152)

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DETAILED ACTION

Response to Amendment

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 2. Claims 18 and 19 are rejected under 35 U.S.C. 102(b) as being anticipated by Kanehiro et al. (U.S. Patent 5,241,937).

Kanehiro et al. disclose a system for internal combustion engines comprising:

- a humidity sensor 32 for detecting the humidity of the air and relaying a signal to the electronic control unit ECU 5 (column 9, lines 32-36) which has a CPU 5b (column 10, lines 8-18);
- ECU 5 and CPU 5b determining operating conditions of the engine based on signals from various sensors (column 9, lines 62-64, column 10, lines 15-24);
- CPU 5b supplying driving signals based on parameter calculations to a valve timing changeover apparatus 40 (column 22, lines 5-10);
- the valve changeover device 40 changing the valve timing of the intake and exhaust valves or the valve lift amount (column 20, lines 66-68 with column 21, lines 1-5, and Figure 16);
 - an engine having a camshaft (column 9, line 15).

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Allowable Subject Matter

3. Claims 1-14, 16, and 17 are allowed.

Response to Arguments

- 4. Applicant's arguments filed 2 September 2004 have been fully considered but they are not persuasive.
- 5. Applicant has amended previously submitted independent claims to overcome the prior art. However, the cited prior art still reads on the newly added claims 18 and 19. Specifically, Kanehiro et al. disclose a humidity sensor which inherently takes readings of different humidity levels and relays these readings to a controller which then adjusts the valve timing apparatus for more efficient engine operation. Higher or lower readings of dilution levels, as suggested by claim 18, are inherent in this process.
- 6. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

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Conclusion

7. The IDS (PTO-1449) filed on 2 October 2003 has been considered. An initialized copy is

attached hereto.

Communication

8. Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Kyle M. Riddle whose telephone number is (703) 306-3409, and

effective 22 November 2004 will be (571) 272-4864. The examiner can normally be reached on

M-F (07:30-5:00) Second Friday Off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Thomas Denion can be reached on (571) 272-4859 effective 22 November 2004.

The fax phone number for the organization where this application or proceeding is assigned is

703-872-9306.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

applications is available through Private PAIR only. For more information about the PAIR

system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR

system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Kyle M. Riddle

Examiner

Art Unit 3748

kmr

THOMAS DENION

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SUPERVISORY PATENT EXAMINER

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